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AMENDMENTS TO THE CLAIMS

Please add Claims 27 and 28.

Please amend Claims 1, 4-13, 14, and 17-26 as follows:

- 1 1. (currently amended) A method for providing access between a first party and a
2 second party, said method comprising the steps of:
3 generating a challenge value ~~and a lock value~~ at said first party;
4 transmitting said challenge to said second party;
5 generating a response value using a lock value from at said second party;
6 wherein said lock value indicates a desired access mode;
7 transmitting said response value to said first party; and
8 validating said response value by said first party.
- 1 2. (original) The method of Claim 1, wherein said first party is a disk drive and said
2 second party is a host computer.
- 1 3. (original) The method of Claim 2, wherein said disk drive is locked when not accessed.
- 1 4. (currently amended) The method of Claim ~~[[3]] 1, wherein said step of generating a~~
2 ~~said challenge value and said lock value~~ further includes ing:
3 ~~the step of~~ using 512 bits for said challenge value and using 512 bits for said lock
4 value.
- 1 5. (currently amended) The method of Claim ~~[[4]] 1, wherein said step of generating a~~
2 ~~said challenge value and said lock value~~ further includes ing:
3 ~~the step of~~ randomly generating each said challenge value.
- 1 6. (currently amended) The method of Claim ~~[[5]] 1, wherein said step of generating~~
2 ~~[[a]] said challenge value and said lock value~~ further includes ing:
3 ~~the step of~~ using a disk drive controller to generate said challenge value.

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1 7. (currently amended) The method of Claim [[6]] 1, wherein said step of generating
2 [[a]] said response value further includes:
3 ~~the step of using an exclusive OR (XOR) to combine the said challenge and said lock~~
4 ~~value[[s]].~~

1 8. (currently amended) The method of Claim [[7]] 1, wherein said step of generating
2 [[a]] said response value further includes:
3 ~~the step of using 160 bits for said response value.~~

1 9. (currently amended) The method of Claim [[8]] 1, wherein said step of generating
2 [[a]] said response value further includes:
3 ~~the step of using a cryptography circuit to generate said response value.~~

1 10. (currently amended) The method of Claim 9, wherein said step of generating [[a]]
2 said response value further includes the step of using an algorithm to generate said response
3 value.

1 11. (currently amended) The method of Claim [[10]] 6, wherein said step of
2 generating [[a]] said response value further includes:
3 ~~the step of using a secure hash algorithm to generate said response value.~~

1 12. (currently amended) The method of Claim 11, wherein said step of validating said
2 response value further includes:
3 ~~the step of wherein~~ said disk drive controller ~~receivings~~ the challenge and lock
4 value[[s,]] ;
5 computing a duplicate response value on said disk drive controller by performing a
6 duplicate said secure hash algorithm[[,]] ; and
7 ~~comparing the original~~ said response value to the said duplicate said response value.

1 13. (currently amended) The method of Claim 12, wherein said step of validating said
2 response value further includes:

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3 ~~the step of~~ unlocking the disk drive in accordance with the desired access mode
4 indicated by the lock value if the response and duplicate response values match.

1 14. (currently amended) An apparatus for providing access between a first party and a
2 second party, said apparatus comprising:

3 means for generating a challenge value ~~and a lock value~~ at said first party;
4 means for transmitting said challenge to said second party;
5 means for generating a response value using a lock value at said second party;
6 wherein said lock value indicates a desired access mode;
7 means for transmitting said response value to said first party; and
8 means for validating said response value by said first party.

1 15. (original) The apparatus of Claim 14, wherein said first party is a disk drive and said
2 second party is a host computer.

1 16. (original) The apparatus of Claim 15, wherein said disk drive is locked when not
2 accessed.

1 17. (currently amended) The apparatus of Claim ~~[[16]]~~ 14, ~~wherein said means for~~
2 ~~generating a said challenge value and said lock value~~ further includesing;
3 means for using 512 bits for said challenge value and using 512 bits for said lock
4 value.

1 18. (currently amended) The apparatus of Claim ~~[[17]]~~ 14, ~~wherein said means for~~
2 ~~generating a said challenge value and said lock value~~ further includesing;
3 means for randomly generating ~~each~~ said challenge value.

1 19. (currently amended) The apparatus of Claim ~~[[18]]~~ 14, ~~wherein said means for~~
2 ~~generating a said challenge value and said lock value~~ further includesing;
3 means for using a disk drive controller to generate said challenge value.

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1 20. (currently amended) The apparatus of Claim [[19]] 14, wherein said means for
2 generating [[a]] said response value further includes;
3 means for using an exclusive OR (XOR) for combining the said challenge and said
4 lock values.

1 21. (currently amended) The apparatus of Claim [[20]] 14, wherein said means for
2 generating [[a]] said response value further includes;
3 means for using 160 bits for said response value.

1 22. (currently amended) The apparatus of Claim [[21]] 14, wherein said means for
2 generating [[a]] said response value further includes;
3 a cryptography circuit for generating said response value.

1 23. (currently amended) The apparatus of Claim 22, wherein said means for generating
2 [[a]] said response value further includes an algorithm for generating said response value.

1 24. (currently amended) The apparatus of Claim [[23]] 14, wherein said means for
2 generating [[a]] said response value further includes;
3 a secure hash algorithm for generating said response value.

1 25. (currently amended) The apparatus of Claim [[24]] 19, wherein said means for
2 validating said response value further includes;
3 ~~a means for wherein~~ said disk drive controller receives challenge and lock
4 value[[s,]] ;
5 means for computing a duplicate response value on said disk drive controller by
6 performing a duplicate said secure hash algorithm[[,]] ; and
7 means for comparing ~~the original~~ said response value to the said duplicate said
8 response value.

1 26. (currently amended) The apparatus of Claim [[25]] 15, wherein said means for
2 validating said response value further includes;

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3 means for unlocking the disk drive in accordance with the desired access mode

4 indicated by the lock value if the response and duplicate response values match.

1 27. (new) The apparatus of Claim 15, wherein said means for validating said response

2 value further includes:

3 means for unlocking the disk drive in accordance with the desired access mode

4 indicated by the lock value if the response value is valid.

1 28. (new) The method of Claim 1, wherein said step of validating said response value

2 further includes:

3 unlocking the disk drive in accordance with the desired access mode indicated by the

4 lock value if the response value is valid.

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